

UAS AND ISR TECHNICAL TRAINING

A solution for every setting.

For training to be effective, you not only need to know your material, you need to know how to communicate the material in a format and on a level that is right for the group being trained. BOSH recognizes this, and customizes UAS and Small UAS training programs for everything from basic overviews to full certification courses. Using a combination of rigorous academics and experience-based field instruction, BOSH employs an unfailing recipe for UAS and Small UAS training success.



Our training programs consist of UAS, Small UAS and ISR academic courses and practices of all core flight operations tasks supervised by an instructor.

Our services in this area include:

- Training requirement identification and development
- Course development
- Training through technology applications (such as computer based training, courseware web hosting and distance learning)

BOSH's training programs typically include a combination of classroom stand-up instruction, hands-on training and self-study guides

Classroom-based instruction can include:

- UAS overview (classes of systems, roles and missions)
- System orientation (aircraft, GCS, sensor, antennas), operating limits, and emergency procedures
- Employment concepts (split ops, remote split ops, hub and spoke) Reconnaissance techniques (search patterns, moving targets)
- FAA operating guidance and mission planning
- EO/IR sensor basics

Flight training can include:

- System setup/teardown, preflight procedures, and airspace and frequency coordination
- Aircraft handling, basic Falconview, basic sensor operation, and basic autopilot operation
- Crew coordination and reconnaissance techniques
- Air support requests and basic strike coordination
- Troubleshooting and emergency procedures

BOSH also provides technical personnel training, in a format that ensures qualification and, when required, certification for respective specialties. Through either a unique training path or a combination of different formats, we utilize classroom, laboratory and on-the-job training.

To find out more, call us at 757.271.3428.



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AVIATION OPERATIONS & SUPPORT

First to see, understand and act.

The demand for unmanned systems is growing, as more and more missions are supported by unmanned technology. To maximize the potential of unmanned aircraft systems (UAS), you need the right people; people of the highest caliber, with an intense breadth of experience. You'll find those people at BOSH Global Services.

Our teams of air vehicle and payload operators, aircraft mechanics, and avionics technicians are among the most experienced in the field. From the Department of Homeland Security to DoD Special Operations Command, and from first responder to civilian missions, we bring every client solid expertise and support, with hands-on and advisory services including:

- UAS flight operations, training, and test support including aircraft, ground control station (GCS) and antenna maintenance
- Manned aircraft surrogate services for incident awareness and assessment within the National Airspace System
- Engineering sensor data distribution architectures, including live video feeds from manned and unmanned platforms to support training exercises and real-world operations
- Designing, building and sustaining 24/7 operations centers (UAS, tactical and emergency) and intelligence processing cells
- Remotely operated video enhanced receiver (ROVER) training
- UAS subject matter experts for special studies, concept of operations (CONOPS) and doctrine development, and senior level query response
- Acquisition planning, programming, and budgeting management
- Tactical communications planning and system sustainability
- Logistics management, including tracking status, configuration and movement and deployment of control stations and aircraft
- Planning, scheduling, and coordination of joint training to maintain operational readiness

We understand and support the full range of deployed UAS operations, including stateside and overseas airspace and frequency coordination, hub and spoke operations, and split operations. Since we work with special operations forces, we're constantly exposed to the latest technology and tactics, a knowledge base we can use to take your mission to the highest level.

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C2 SYSTEMS SUPPORT

Success through teamwork.

Too often, subcontractors serve as an “outside source” for specialized support. But in command and control, any support you receive - whether internal or through a subcontractor - needs to be part of a cohesive effort. That is our approach at BOSH Global Services. Our true team approach means you get the global perspective you need and a superior level of dedication to your mission.

Our C2 Systems Support team provides system support for operating, maintaining, managing and evaluating command and control network systems throughout the DoD community. These support services include:

- System and network engineering and administration
- Configuration management
- System configuration management and documentation
- Audio visual/video teleconferencing administration and support
- Radio and data link technical and configuration support
- Communications systems technical support
- Subject matter expert assistance
- Client support administration

The members of our C2 Team have earned numerous special system and networking certifications, such as CCNA, CCDA and CCNP, and several members have also graduated from the formal USAF AOC System Administration Course.

Our expertise is demonstrated daily at the USAF Air & Space Operations Centers (AOCs). There, we reconfigure systems to tailor the system to the 505CCW's requirements for every exercise. This same level of responsiveness is applicable throughout the DoD, specifically those agencies with command center requirements that utilize the “system of systems” approach to mission accomplishment.

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ISR SUPPORT SERVICES

The technology you need.

The experience to help you use it.

The challenge with (ISR) support to operations isn't necessarily a lack of information. Quite often, the issue is too much information. With an overload of sensors and platforms, our customers are faced with data saturation and the inability to utilize intelligence power to its fullest potential. The technology has arrived; and we are the team to take this technology to the next level of superior performance.

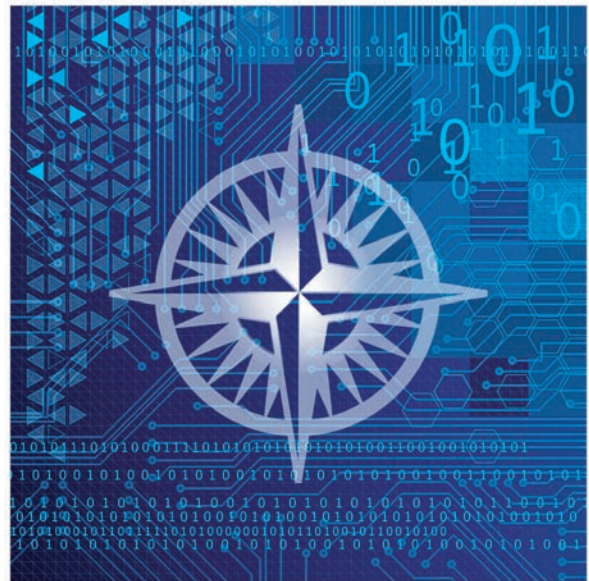
Our ISR Support Services team is dedicated to meeting ISR-related challenges and requirements and turning them into actionable solutions. They're solutions that get the job done, and are based on optimizing your budget and reaching your goals. Our ISR Support team focuses on:

- Experimentation management
- Innovation management
- Concept of operation formulation
- Tactics, techniques and procedures formulation
- Threat analysis
- ISR experimentation laboratory management
- Intelligence production
- Subject matter expertise
- Spiral development and transition
- Testing and evaluation
- Advanced technology and innovation
- Platforms and sensors applications

BOSH solutions are vetted and fused among a professional staff whose expertise ranges from communications networks and ISR, to unmanned system operations and theater campaign planning. This seasoned staff understands the challenges of today and the future. We take pride in providing only the best of the best, as our customers are our number one priority.

BOSH is currently supporting customers within the Air Force ISR Agency; the Air Force Materiel Command; the Air Force Research Laboratories; the Global Cyberspace Integration Center and the Joint Unmanned Aerial Systems Center of Excellence. From product delivery to contract administration, we're known as an industry leader in customer satisfaction in the ISR field.

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IT SYSTEMS MAINTENANCE & OPERATIONS

For effective solutions from day one.

When it comes to communications, IT and networking for unmanned technology, you need immediate, proven performance from day one. BOSH Global Services is one of the few groups that have the proven past performance to manage your IT unmanned systems operations requirements. In fact, our IT team includes a number of “firsts” in our field, such as the design of the first AF communications architecture to support Predator remote split operations (RSO), the designer and implementer of the first inter-theater video dissemination capability, and key players in the integration of the first Predator Primary Satellite Link (PPSL) for RSO.



This team has the capability and know-how to handle:

- Circuit provisioning
- Costing
- Budget development
- Leasing arrangements for satellites
- DISA regulatory issue coordination with DITCO
- On-site SME staffing
- International equipment placement, including landing rights, frequency rights and host coordination
- Transport mechanism for the network
- IP routing and multicast
- Satellite Communications
- Frame relay

At BOSH, we bring each client guaranteed service delivery, with redundancy of power, shelter and facilities to ensure operational effectiveness, even in the most challenging conditions. With 24/7 operations, we offer on-demand services and system integration for immediate action during mission critical.

The IT team at BOSH not only has the experience and knowledge to set up comprehensive, turnkey communications systems; we also have a working relationship with government agencies, and extensive experience with international regulations and operations to ensure global reliability.

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SYSTEMS LIFECYCLE MANAGEMENT

Turnkey service for the life of your unmanned systems operation.

When every mission is critical and every dollar counts, you need to maximize your investment in technology. BOSH can make that happen, with turnkey systems lifecycle management services for every aspect of your operations center, including:



- Systems security requirement management to ensure secure operations
- Configuration management
- Metrics development and monitoring
- Technical refresh services
- Insertion of new or emerging technology into legacy systems
- Hardware / software upgrades and modifications
- Technology acquisition and requirements development to identify vendor neutral benchmark solutions
- Vanishing vendor / end-of-life system upgrades and modifications
- Trend analysis

Our systems lifecycle management team has the real-world experience and up-to-the-minute knowledge required to keep your system running as efficiently as possible, optimizing its life and ensuring its reliability, maintainability and accountability throughout. With solid baseline configuration management services, we can project potential changes, upgrades and predetermine their effects. By collecting metrics on your system and performing detailed systems analysis, our team can identify trends and opportunities for improvements. We understand how important it is for you to maintain and upgrade your system - because we've been in your shoes. We know people's jobs and lives are often on the line. That's why we make it our business to ensure that our response time to outages is two minutes or less.

Our experience includes the engineering, installation, integration and lifecycle management for our country's most important unmanned programs: the Predator and Reaper. To handle systems lifecycle management for projects of this magnitude, we combine our expertise in a range of disciplines, including:

- Video encoding
- Metadata management
- Long haul communications
- Networking
- System security
- Computing
- Integration
- Engineering
- Logistics
- Reliability, maintainability, and accountability management for electronic systems
- Maintenance management
- Acquisition and requirements

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SYSTEMS ENGINEERING, INTEGRATION & INSTALLATION

The best minds ensure the best performance for years to come.

Unmanned technology is in a state of constant change. So when your mission depends upon unmanned technology and its support services, you need a team that is adept at change. You need a team that can bring you viable options today, and track and maintain changes for tomorrow.



BOSH Global Services Systems Engineering, Integration and Installation team approaches every system with an eye to the future, mitigating risks by anticipating problems, needs, and requirements. This team includes best-in-their-business engineers with advanced degrees, former military officers, and industry professionals that have built such advanced systems around the world. With clearances up to the top-secret level, our front line install troops are the best of the best, designing, installing, and maintaining these vital systems in sensitive areas stateside and abroad. Among the services we provide are:

- User surveys to define end-user requirements
- Engineering design
- System acquisition
- Coordination with agencies that use, touch, and fund the system
- System staging, installation, and final configuration
- Documentation
- Testing and training

With turnkey, comprehensive service from design through implementation and sustainment, BOSH brings you ideas and solutions across technology brands, offering cutting edge solutions from an ever-evolving list of vendor products. We also make sure that each system is designed for compatibility and interoperability, which is mandatory for collaborative operations today and into the future.

At BOSH, we pride ourselves in our detailed and thorough engineering design configuration and testing. We clearly and concisely present information in lay terms to define requirements and answer the users' needs. Our specialized expertise in this area includes:

- Wireless/satellite communications
- Robotics
- Video encoding/decoding
- IT networks, multi-task and encryption

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VIDEO TECHNOLOGY

Your eyes on the world.

Today's military and first responders are faced with a world of challenges. While a watchful eye must be kept on land and sea, manpower limitations don't always make it possible. But with the Video Technology services of BOSH Global Services, your operations can be extended to every corner of the earth.

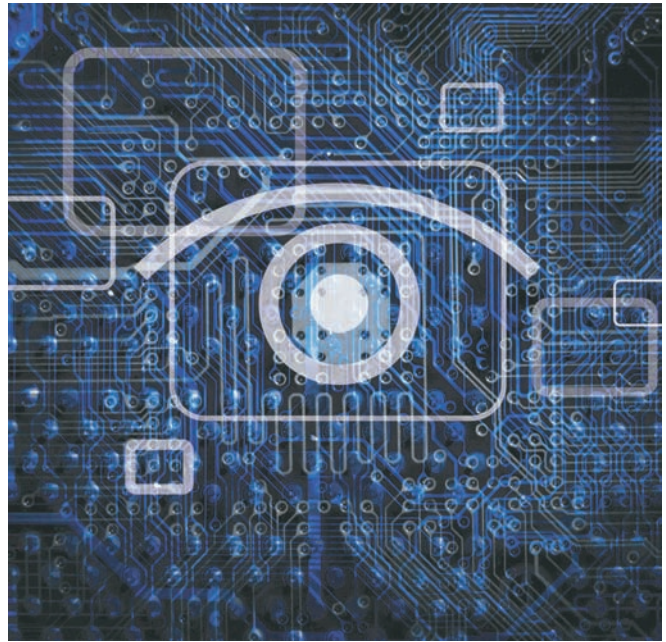
With its base in unmanned vehicles, BOSH can effectively deliver video when and where you need it. Our team designs video delivery systems around those variables that best work for the end user, including:

- Available bandwidth - either terrestrial or satellite
- Existing levels of operational support
- Existing network infrastructures
- Existing and planned video requirements
- Current and next-generation video and network standards

Our system can deliver video in a variety of formats, including analog (NTSC or PAL), MPEG2, MPEG4, and H.264 Part 10, to name the most prevalent formats. Through our metadata processing, we can correlate location, time/date stamps, camera azimuth, and other situational awareness data with your video and feeds. With the integration of metadata with the video, we enable the following capabilities for our end-users:

- Video collaboration
- Video archiving and retrieval
- Video overlays onto geospatial information systems (GIS)

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